



Ref No: NINL/JODA/2024/169

Date: 30/09/2024

The Member Secretary
State Pollution Control Board
Paribesh Bhawan
A/118, Nilkantha Nagar, Unit-VIII
Bhubaneswar-751012

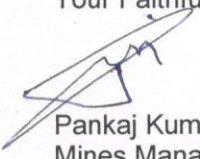
Sub:- Environment Statement of Neelanchal Iron Ore mines of M/s Neelanchal Ispat Nigam Limited for FY 23-24.

Dear Sir,

Kindly find attached herewith the Environment Statement in the prescribed format (Form V) as per "Environment (Protection) Amendment Rules 1992" of Neelanchal Iron Ore Mine for your kind perusal.

Thanking You,

Your Faithfully


Pankaj Kumar
Mines Manager
NINL Mines

Mines Manager
Neelanchal Iron Ore Mine

NEELACHAL ISPAT NIGAM LIMITED

Kalinga Nagar Industrial Complex Duburi 755026 Odisha India Phone 06726 264001
Corporate Identification Number U27109OR1982PLC001050

ENVIRONMENT STATEMENT 2023-24



Neelanchal Iron Ore Mines

NEELACHAL IRON ORE MINE Of NEELANCHAL ISPAT NIGAM LIMITED

September 2024

FORM - V
(See Rule -14)

ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH, 2023

NEELANCHAL IRON ORE MINES, NEELANCHAL ISPAT NIGAM LIMITED

PART-A

1	Name and address of the owner/ occupier of the industry, operation or process :	Mr Rahul Kishore, Chief (NINL) Neelanchal Iron Ore Mine Neelanchal Ispat Nigam Limited Dist. Keonjhar, Odisha - 758034
	Nominated Owner :	Mr Pankaj Kumar, Mine Manager (NINL) Neelanchal Iron Ore Mine, At : Mithirda, PO : Patmunda Via : Koira Dist : Sundargarh.
2	Industry Category :	Opencast Iron Ore Mining, Crushing & Screening (Major)
3	Production Capacity* :	Mining: - 2 MTPA Iron Ore
4	Year of Establishment :	2017
5	Date of last Environmental Statement submitted. :	28th September 2023, vide letter no. NINL/KJR/2023/112

*As per Environmental Clearance

PART-B

Water and Raw Material Consumption

(i) Water Consumption:

Consumption Head:	2022-23 (in cu.m/day) (Annual Average)	2023-24 (in cu.m/day) (Annual Average)
Process		
Spraying in mine pit, services	45	56
Domestic	25	30
Name of the product	Process water consumption per product output (m³/MT)	
Iron Ore	0.000054	0.017469

This is a mechanised mine producing iron ore. The iron ore processing is dry crushing and screening only. Dust suppression at C&S plant is carried out through a scientific way using dry fog system, thus reducing the requirement of water to very minimum level.

ii) Raw Material Consumption

The following items have been consumed/ utilized:

Name of Raw Materials	Consumption of Raw Material	
	During previous financial year (2022-23)	During current financial year (2023-24)
High Speed Diesel	1340798 ltrs	2443929 ltrs
Lubricants	12351 ltrs	28511 ltrs
Grease	2798 kgs	2293 kgs
Explosive of all types (Explosive, codex, detonator)	407925 kgs & 12604 No's	453000 kgs & 15176 No's
Gas	1900 Cu.M	5096 Cu.M
Tyres	185 No's	104 No's
Drill rods	36 No's	201 No's
Electricity Consumed	3769220 Kwh	7878515 Kwh
Electricity Generated	3769220 Kwh	7878515 Kwh

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT/ UNIT OF OUTPUT
(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass / day)	Concentration of Pollutants discharges (mass / day)	Percentage of variation from prescribed standards with reasons
a) Water	<p>Mining operation commenced during Oct 2021 & the mine is in its initial development phase. Thus, no ETP and STP is installed at site at present. However, provision of installation of the same is planned & under progress. Treated water from STP and ETP will be reused for water sprinkling purpose as well as horticulture purpose. Zero effluent discharge shall be maintained.</p> <p>The HEMM cleaning & washing is carried placed outside mines for the time being.</p>		
b) Air	<p>The Neelanchal Iron Mine is an opencast iron mine with crushing & screening plant. The air quality in the form of fugitive, dust fall, ambient, respirable has been measured and monitored regularly and is well within limits.</p> <p>All the dust generating points such as loading -unloading devices are equipped with dust arresting system such as dry fog, fixed & mobile water sprinklers, mist spray, dust extractors -bag filters, water scrubbers etc.</p> <p>One continuous ambient air quality monitoring stations with PM₁₀, PM_{2.5}, SO_x, NO_x, (NO₂ & NO) & CO parameters has been installed.</p> <p>A thick & dense vegetation is also placed in all surrounding the area which significantly reduced the pollution load.</p>		

PART-D
HAZARDOUS WASTES

As specified under the Hazardous & Other Waste (Management & Trans boundary Movement) Rules, 2016 and amendment thereof

Hazardous Wastes	Total Quantity	
	During previous financial year (2022-23)	During current financial year (2023-24)
(a) From Process <ul style="list-style-type: none"> • Used Oil • Waste containing Oil • Lead Bering residues (Batteries etc) • Rejected & used hose pipes 	800 litres NIL Nil	1641 litres NIL NIL
ii) From Pollution Control Facility <ul style="list-style-type: none"> • Waste oil from oil & grease separation pit • Sludge from oil and grease separation pit 	Nil (Included in process) All the Hazardous waste generated is disposed as per law.	

PART-E
SOLID WASTES

Solid wastes from Neelanchal Iron Ore Mine is Overburden/rejects removed during mining operations. All the materials overburden are stacked in designated place inside the mine as per the approved mine plan. However, other solid waste (scrap material, used conveyor belts, tyres etc.) is also being generated from mining activity.

Sources	Total Quantity	
	During previous financial year (2022-23)	During current financial year (2023-24)
a) From Process <ul style="list-style-type: none"> • From mining as Overburden • Sub grade • From OB Plant as Tailing 	25000 M ³ 4000 MT	62412.5 M ³ 11970 MT
b) From Pollution Control Facility	Nil	Nil
c) i. Quantity recycled or reutilized within the unit		
ii. Quantity sold <ul style="list-style-type: none"> • General Office waste 		
iii. Quantity disposed <ul style="list-style-type: none"> • Mining overburden 	25000 M ³ (Stored as designated Place)	62412.5 M ³ (Stored as designated Place)

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PART-F

PLEASE SPECIFY THE CHARACTERISTICS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES

The Neelanchal Iron Ore Mine generate hazardous waste mainly in the form of used oil. The used oil is being generated from HEMM maintenance, which are used in mining operations. The used oil is disposed to authorized agency for recycling and reuse. The hazardous waste such as used batteries is sold to authorized agency.

The other solid waste in the form of overburden and sub-grade mineral are stocked in designated place.

PART-G

IMPACT OF POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION

- For conservation of natural resources, high efficiency HEMM are used with adequate maintenance so as to reduce the fuel consumption. Zero effluent discharge is been maintained.
- For ground water augmentation, various rainwater harvesting structures are made, in the buffer zone which harvest the groundwater.
- Efficient working of the HEMM was introduced in the mines which significantly reduced diesel consumption.

PART-H


ADDITIONAL MEASURES/ INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION

- Construction of settling ponds for storage of surface runoff.
- Construction of toe walls, garland drains along with check dams for arresting silts from overburden dumps.
- The check dams are strengthened with two additional RWH structure.
- Awareness programme such as World environment day, Biodiversity Day, Swachhata pakhwada, Earth Day was organised for creating awareness of people.
- The above abatement measures have resulted in improvement of air and water quality, reduction in noise levels, and improvement greenery within the lease. In addition, Tata Steel Foundation (TSF) is engaged in peripheral developmental activities in villages around the mine. The projects of the Society include irrigation and agricultural extension projects, plantation programmes, creation of SAVE FOREST groups, civic amenities development, medical care and health education, rural sports and skill development, rural cultural promotion, etc.

PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

- The Company is having a full-fledged Environmental Management Department with personnel from different backgrounds to take care of all environmental aspects relating to mines of Tata Steel. This department has in house capabilities for monitoring various environmental parameters and suggesting to the management necessary abatement measures.
- Various awareness programs throughout the year conducted in the area which included celebration of World Environment Day, World Water Day, Mine Environment & Mineral Conservation Week, World Bio-diversity Week, Annual Flower & Vegetable Show etc. In which environment conservation models, current & future proposals are made, environment messages through Nukkad natak, poems, slogans, swachhata drive is been done every year.



**Mines Manager
Neelachal Ispat Nigam Ltd.**

**Mines Manager
Neelachal Iron Ore Mine**